



*Specialized in chemicals*

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**Technical Data Sheet**

**Zinc oxide**

**Product Information**

Chemical Name           Zinc oxide  
 CAS #                    1314-13-2  
 Formula                  ZnO  
 Molecular Weight       81.39  
 Synonyms                Zinc Oxide  
 Chemical Structure



**Physical Properties**

Melting point, °C .           1975°C  
 Density @ 20°C, g/cm3       5.606g • cm-3  
 Flash point, °C               1436°C

**Specification**

item	index						
	99.9	99.8	99.7	99.5	99	98	96
Ltems of analysis	99.9	99.8	99.7	99.5	99	98	96
ZnO %≥	99.9	99.8	99.7	99.5	99	98	96
Metal zinc (Zn) %≤	none	none	none	none	0.01	none	none
Lead oxide (Pb) %≤	0.003	0.005	0.037	0.04	0.15	0.18	0.3
Cupric oxide (Cu) %≤	0.0001	0.0001	0.0002	0.0004	0.0004	/	/
Manganic oxide (Mn) %≤	0.0001	0.0001	0.0001	0.0001	0.0001	/	/
Matter insoluble in HCl %≤	0.004	0.006	0.012	0.015	0.05	0.1	0.25
Loss on ignition %≤	0.12	0.2	0.2	0.2	0.2	0.3	0.5
Matter soluble in water %≤	0.01	0.1	0.1	0.2	0.2	0.3	0.3
105 °c volatile %≤	0.06	0.1	0.3	0.4	0.4	0.6	0.8

Specific surface area(m <sup>2</sup> /g) %≥	60	55	50	45	40	40	40
Size (um)	20-40	2-20	4-20	4-50	/	/	
Chloride ion,ppm max	0.001		0.0005		0.0005		
Sulphate,ppm max.	0.05		0.005		0.005		
Iron, ppm max.	0.001		0.0005		0.0005		
Heavy metal,ppm max			0.001		0.0005		
Arsenic,ppm max			0.0002		0.0001		

### Safety

Zinc oxide is a normal cargo on transportation,.  
Always refer to the Material Safety Data Sheet (MSDS)

### Applications

- Mainly used for rubber or cable industry as reinforcing agent and surfactant, and white glue stains and filling agent, used as curing agent in the neoprene
- In the chemical fertilizer industry in feed gas for fine desulfurization
- Mainly used as white pigment, rubber vulcanization agent, organic synthesis catalyst, desulfurization agent, used in electrostatic printing, pharmaceutical, etc
- Used in synthetic ammonia, oil, natural gas chemical industry raw material gas desulfurization
- Used for analysis reagent, benchmark reagents, fluorescent agent and the photosensitive material matrix
- Used in wet electrostatic photocopying, dry transfer printing, laser fax communication, electronic computer records of static electricity and electrostatic plate making
- Used in plastic industry, sunscreen cosmetics series products, special ceramics, the special functional coatings, textile and sanitary processing, etc
- Widely used in synthetic ammonia, methanol and hydrogen production of oil and gas industrial raw materials such as depth desulphurization purification process
- Used as medicine, convergence for making ointment or adhesive plaster

### Packaging

25kg per bag  
25mt per 20'container

### Storage & Handling

Zinc oxide Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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